

Abstract

An original method to produce polymeric products is described, which after special cross-linking becomes macroreticular and acquires the ability to absorb organic solvents and petroleum products which are released in the water basins or on the sea, in the amount of 40-80 gram of oily matter/gram of polymer. The macroreticular polymers include polystyrene, trimeric copolymer with styrene, ethylene, butadiene (SEBS) elastomeric SBR with styrene 10%, 20% and 40% fully hydrogenated to saturation, which after special cross-linking in chlorinated solvents with a cross-linking agent forms a thick cross-linked mass which is cut and deodorized. These products are used in a polypropylene net and are swept on the surface of water basins, harbors or the surface of sea to collect the oily matter and the petroleum by endomolecular absorption and by external surface adherence, and the loaded net is washed with petroleum to remove all absorbed oily matter as useful fuel. The net with the absorbing polymers is then ready for reuse.